oxygen. It has, of course, the hook under the fuselage for

picking up messages.

The standard armament consists of three machine guns, two of them in the wheel fairings and a Lewis gun for the observer. As already mentioned, when used as a bomber, the machine carries the bombs on two small stub wings bolted to and easily removable from the undercarriage U-tube.

One very great advantage of the unusual placing of machine guns and bombs is the remarkable accessibility. "Bombing-up" and machine-gun adjustments and inspection can be carried out conveniently, as the height above the ground is but two or three feet. The Service will appreciate this feature when in the field.

With an empty weight of 4,065 lb. and a disposable load of 1,855 lb., the Lysander has a gross weight of 5,920 lb. When fully loaded it has the following speeds:—

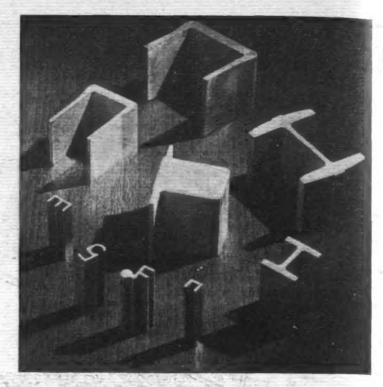
The minimum flying speed (engine on) is 55 m.p.h., and the landing speed 52 m.p.h. It will be appreciated that a speed range of 4: 1 is very remarkable.

The sea level rate of climb is 1,650ft./min,, and the different altitudes are reached as follows:

5,000ft. in 3.1 min. 15,000ft. in 11.4 min. 10,000ft. in 6.8 , 20,000ft. in 19.5 ,

At 5,000ft. the rate of climb is 1,530ft./min.; at 10,000ft. 1,180ft./min.; at 15,000ft. 830ft./min.; and at 20,000ft. 500ft./min. The service ceiling (height at which rate of climb has dropped to 100ft./min.) is 26,000ft. approximately.

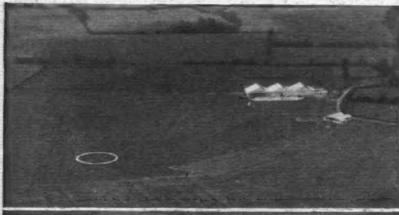
The economical cruising speed is 150 m.p.h., and the range in still air at that speed is 600 miles. With full load the take-off distance to clear a 50ft. obstacle is 230 yards,

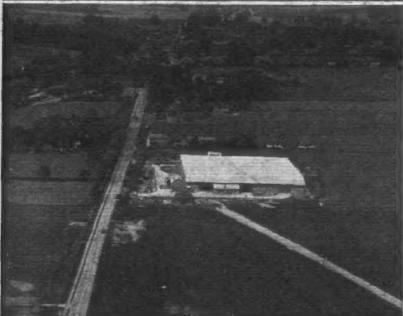


Reynolds extrusions used in the Lysander. The smaller ones are used for window frames and similar purposes, while the central one is a main wing spar extrusion. Behind that are two standardised channels used extensively for making forked lugs. The extrusion on the right is used for the lift struts.

and the take-off run itself 165 yards. With brakes on the landing run is 200 yards, and the approach distance over a 50ft, obstacle to rest 330 yards. Altogether, it can be said that the Westland Lysander is

Altogether, it can be said that the Westland Lysander is a remarkable machine.





"Flight" photograph

The two outward turning points, the factory at Buntingford (below), and the Barton buildings (above) of International Aircraft, Ltd.

## KING'S CUP RACE

## The Entry List: Turning Points from the Air

TWENTY-ONE entries have been received by the R.Ae.C. for the King's Cup Race on Saturday, July 2, which is being flown over a 50-mile circuit from Hatfield, with turning points at Buntingford, Herts, and Barton Airport, Beds. The entries, announced last week-end, are as follows:—

Entrant:	Pilot	Aircraft.	Engine.
Viscountess Wake-	Capt. B. W. Per-	Percival Mew Gull.	Gipsy Six
W. Humble S. K. Davies	Entrant Fit. Lt. H. T. Ferrand.	Sparrowhawk Percival Guli ,	Gipsy Major Gipsy Six
J. I. Waddington Maj. E. Howard	C. F. Hughesdon Wing Cdr. F. W. Stent.	C.W.A. Cygnet Miles Monarch	Gipsy Major Gipsy Major
S. T Lowe F. C. J. Butler	Entrant	Comper Swift Percival Vega Gull	Gipsy III Gipsy Six
Mrs. J. Sherren	K. Waller	Percival Vega	Gipsy Six
Capt. W. L., Hope G. Guthrie	Entrant Entrant	Comper Swift Percival Mew Gull.	Gipsy III Gipsy Six
L. Fontes A. Henshaw	Entrant	Miles Hawk Percival Mew Gull.	Gipsy Six Gipsy Six
Viscount Wakefield	F/O. G. R. de Havilland.	T K.2	Gipsy Major
L. H. T, Cliff	Entrant	Miles Hawk Major.	Gipsy Major
B. G. Thompson Lieut. Gen. Sir Louis Vaughan.	Capt. H. Broad J. A. C. Warren	Parnall Heck Parnall Heck	Gipsy Six Gipsy Six
W. C. Devereux	-	D.H. Comet	Gipsy Six
Sqn. Lds. B. C. T. Edwards	Entrant	Percival Gull	Cirrus Major
J. M. Barwick	Entrant	Miles Hawk Trainer.	Gipsy Major
Sir Derwent Hall	T. M. Morton	B.A.4	Two Gipsy Major.
C. H. Tutt	Entrant	Comper Swift	Pobjoy Niagara III